APPENDIX A.
PACIFIC COASTAL & MARINE SCIENCE CENTER
SAMPLE REQUEST FORM

Mail to the Pacific Coastal & Marine Science Center Core Curator, U.S. Geological Survey,
345 Middlefield Road, MS-999, Menlo Park, CA, 94025;
Desk: 1-650-329-5493, FAX: 1-650-329-5411;
email: mtorresan@usgs.gov

Date of Request:	15 May 2013
Investigator's Name:	Jason A. Addison
Investigator's Title/Affiliation:	Research Geologist, USGS
Email:	jaddison@usgs.gov
Phone:	650-329-5271
Fax:	650-329-5203
Mailing Address:	US Geological Survey 345 Middlefield Road, MS 910 Menlo Park, CA 94025
Shipping Address:	*Same as above*
Funding agency or institution:	US Geological Survey
National Program: (if applicable)	USGS – Climate and Land Use Change, Research & Development Program
Collaborators: Names, affiliation, and roles	John Barron (USGS) - *diatoms* Linda Heusser (LDEO) - *pollen* Bruce Finney (Idaho State Univ.) – *organic matter stable isotopes*
Project summary: A brief (<200 words) summary written to be understood by a non-specialist stating why these samples a necessary to meet your project goals. State the issues to be	Our team is developing a record of past ocean conditions and coastal vegetation from Pacific Ocean sediment records. Preliminary work on TN062-0550 (northern CA margin) shows it is ~7500 yrs old at the base, and has an accumulation rate of ~0.1 cm/yr, making

addressed, the objectives of the project, significance to scientific questions, and facilities needed, all in terms that do not require technical translation.	this core a high-resolution Holocene record of past climate conditions offshore of northern CA. This request has three components: (1) conduct non-destructive **XRF core-scanning** on all TN062 archive halves at 1-cm-resolution; (2) collect some discrete samples for **$CaCO_3$** coulometry to calibrate total Ca concentrations measured by XRF; and (3) collect some additional discrete samples for **opal** analysis. All sampling materials will be provided by the investigator(s).
Potential impacts, major products, and timelines: Describe expected outcomes. What products will you produce to contribute to the desired outcomes? When do you expect to publish data based on these samples?	The results from this investigation will be published as a stand-alone publication in the peer-reviewed scientific literature, probably in FY2014. Results will also be incorporated into a planned synthesis paper, detailing the Holocene development of the North American Pacific coast.

List of Requested Material from the Repository: Page _1_ of _1_

Name: Jason A. Addison

Field Activity ID	Core ID	Section	Half (W/A)[1]	Interval		Volume (cm^3)	Comments
				Top	Bottom		
T-1-96-NC	TN062-0550	1	A	0	93	n/a	XRF scan
T-1-96-NC	TN062-0550	2	A	93	242	n/a	XRF scan
T-1-96-NC	TN062-0550	3	A	242	392	n/a	XRF scan
T-1-96-NC	TN062-0550	4	A	392	541	n/a	XRF scan
T-1-96-NC	TN062-0550	5	A	541	688	n/a	XRF scan
T-1-96-NC	TN062-0550	2	W	208	209	5 cm^3	opal
T-1-96-NC	TN062-0550	2	W	213	214	5 cm^3	opal
T-1-96-NC	TN062-0550	2	W	218	219	5 cm^3	opal
T-1-96-NC	TN062-0550	2	W	223	224	5 cm^3	opal
T-1-96-NC	TN062-0550	1	W	0	93	1-2 cm^3	$CaCO_3$ *(spot samples as needed)*
T-1-96-NC	TN062-0550	2	W	93	242	1-2 cm^3	$CaCO_3$ *(spot samples as needed)*
T-1-96-NC	TN062-0550	3	W	242	392	1-2 cm^3	$CaCO_3$ *(spot samples as needed)*
T-1-96-NC	TN062-0550	4	W	392	541	1-2 cm^3	$CaCO_3$ *(spot samples as needed)*
T-1-96-NC	TN062-0550	5	W	541	688	1-2 cm^3	$CaCO_3$ *(spot samples as needed)*

[1]Note: W/A = working or archive half.